CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-10/477a/Cube/2017-18

15.12.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of RCC drains at Prashanth Nagara, Mathrushri Layout and other roads in ward no. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/55/2017-18 Dated: 24.10.2017
*** Sample ID**	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2017	15.12.2017	8.052	485.3	21.57
2	17.11.2017	15.12.2017	8.207	476.5	21.18
3	17.11.2017	15.12.2017	8.317	518.4	23.04

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

A.E-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2017	15.12.2017	8.175	499.2	22.19
2	17.11.2017	15.12.2017	8.470	512.7	22.79
3	17.11.2017	15.12.2017	8.107	524.6	23.32

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-10/477a/Cube/2017-18

18.12.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of RCC drains at Prashanth Nagara, Mathrushri Layout and other roads in ward no. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/55/2017-18 Dated: 24.10.2017
*** Sample ID**	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2017	18.12.2017	8.072	492.8	21.90
2	20.11.2017	18.12.2017	8.268	500.2	22.23
3	20.11.2017	18.12.2017	8.492	513.6	22.83

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*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2017	18.12.2017	8.149	486.2	21.61
2	20.11.2017	18.12.2017	8.308	511.9	22.75
3	20.11.2017	18.12.2017	8.253	526.5	23.40

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18.12.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Construction of RCC drains at Prashanth Nagara, Mathrushri Layout and other roads in ward no. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/55/2017-18 Dated: 24.10.2017
*** Sample ID**	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2017	18.12.2017	8.116	498.2	22.14
2	20.11.2017	18.12.2017	8.264	517.5	23.00
3	20.11.2017	18.12.2017	8.400	520.8	23.15

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Job No.:CTCE/BBMP/W.No.13/KRIDL/CSR-10/477a/Precast Slab/2017-18

28.11.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Construction of RCC drains at Prashanth Nagara, Mathrushri Layout and other roads in ward no. 13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/55/2017-18 Dated: 24.10.2017
*** Sample ID**	:	Precast Slab
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	24.11.2017
Date of Testing	:	28.11.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.408	2534.06	1.64	0.961	31.56	16.07	17.36	18.06	22.58
2	50.00	81.00	0.410	2577.92	1.62	0.959	33.17	16.89	18.24	17.50	21.87
3	50.00	80.00	0.412	2622.87	1.60	0.957	34.05	17.34	18.73	17.92	22.40

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